

# MA2QA01(Tentative)

## Silicon diodes

For power rectification

### ■ Features

- New Mini-power type package (2 pins)
- $V_R = 400V$ ,  $I_F = 1.0A$

### ■ Absolute Maximum Ratings (Ta= 25°C)

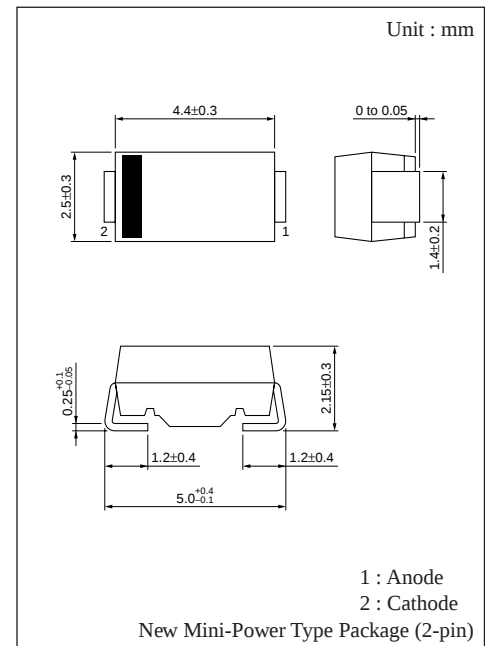
| Parameter                                 | Symbol         | Rating                         | Unit |
|-------------------------------------------|----------------|--------------------------------|------|
| Repetitive peak reverse voltage           | $V_{RRM}$      | 400                            | V    |
| Average forward current                   | $I_{F(AV)}$ *1 | $\text{⌘}^1$ $\text{⌘}^2$ 0.75 | A    |
| Non-repetitive peak forward surge current | $I_{FSM}$ *2   | 30                             | A    |
| Junction temperature                      | $T_j$          | 150                            | °C   |
| Storage temperature                       | $T_{stg}$      | – 55 to +150                   | °C   |

\*1 With a printed-circuit board

\*2 50Hz sine half-wave (non-repetitive)

$\text{⌘}^1$  Alumina board mounted (50mm × 20mm × t 1.0mm)

$\text{⌘}^2$  Glass epoxy board mounted (50mm × 20mm × t 1.6mm)



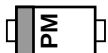
Marking Symbol : PM

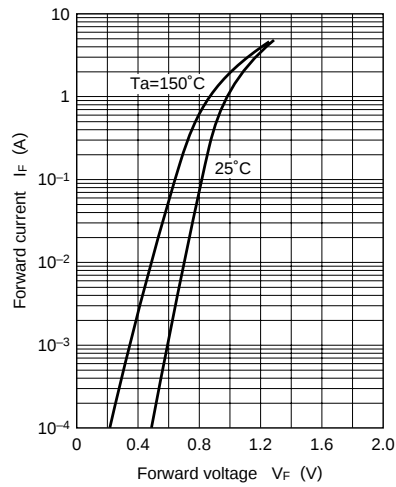
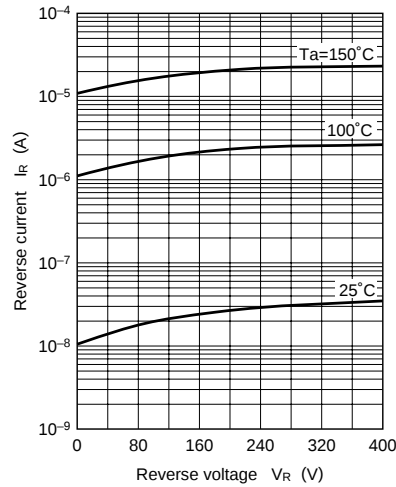
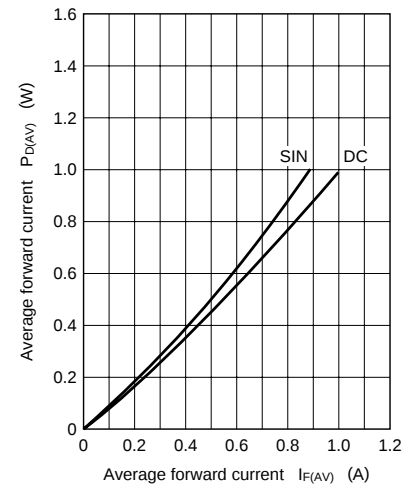
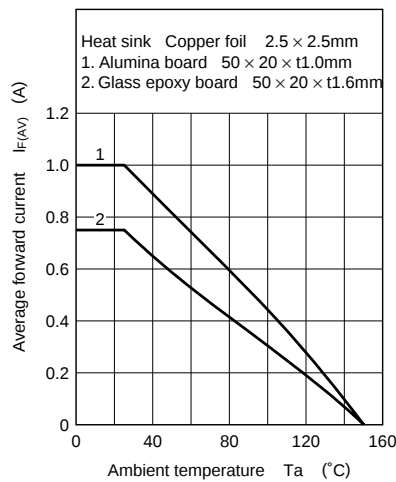
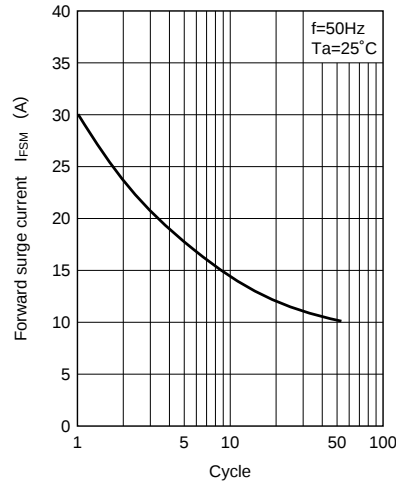
### ■ Electrical Characteristics (Ta= 25°C)

| Parameter            | Symbol          | Condition                                         | min | typ | max | Unit    |
|----------------------|-----------------|---------------------------------------------------|-----|-----|-----|---------|
| Reverse current (DC) | $I_R$           | $V_R = 400V$                                      |     |     | 10  | $\mu A$ |
| Forward voltage (DC) | $V_F$           | $I_F = 1.0A$                                      |     |     | 1.1 | V       |
| Thermal resistance   | $R_{th(j-a)}$ * | Alumina board mounted (50mm × 20mm × t 1.0mm)     |     | 55  |     | °C/W    |
|                      |                 | Glass epoxy board mounted (50mm × 20mm × t 1.6mm) |     | 175 |     |         |

❖ Rated input/output frequency : 100kHz

### ■ Marking



$I_F - V_F$  $I_R - V_R$  $P_{D(AV)} - I_{F(AV)}$  $I_{F(AV)} - T_a$  $I_{FSM} - t$  $R_{th} - t$ 